

Appl. No. 10/047,995
Amdt. Dated July 7, 2005
Reply to Office Action of March 10, 2005

REMARKS

The following remarks are responsive to the Office Action mailed March 10, 2005.

Claims 1-82 were originally presented. Upon a restriction requirement, Claims 1-23 and 78-82 are currently pending.

Information Disclosure Statements

In reviewing the Official File Wrapper on Private Pair, Applicant notes that seven (7) Information Disclosure Statements were submitted by Applicant and received by the Patent Office as noted below. As the Examiner did not return signed and initialed 1449 forms in the present Office Action, Applicant – by way of courtesy copies – submits the following as Exhibit attachments to the present Amendment:

Exhibit A – A print-out of the File History from the USPTO Private Pair, showing the receipt of seven (7) Information Disclosure Statements.

Exhibits B-H – Copies of the 1449 forms submitted by Applicant and received on the following dates: 05-15-2002, 05-25-2002, 10-11-2002, 03-06-2003, 04-02-2003, 04-15-2003, and 07-15-2003 respectively.

Applicant respectfully requests that the Examiner consider the references listed in the attached 1449 forms and return signed and initialed copies in the next Office Action.

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Claim Rejection under 35 USC § 102:

Claims 1-23 and 78-82 are currently rejected under 35 USC 102(e) as being anticipated by Park (USP 5,971,546).

Specifically, as to Claim 1, the Examiner states that Park shows offsetting the green pixels from the red and blue pixels by about a half (see Figs. 10, 19, 24, and 28).

As to Claim 1, Applicant respectfully traverses.

The Examiner cites -- as support for the rejection of Claim 1 -- that Figures 10, 19, 24, and 28 of Park disclose the method of Claim 1. However, Applicant respectfully avers that the claim limitation of Claim 1 is not met by these Figures -- and that Park, in fact, teaches away from Claim 1.

Claim 1 of the present invention is a method of "doubling the addressability ... of a display" by "offsetting [] green pixels from [] red pixels and [] blue pixels by one-half".

Park, by contrast, does not concern itself doubling addressability. Instead, the stated goal and object of Park is to "prevent the deterioration of the quality of [projected] image[s]". (Col. 2, lines 28-30). The source of this deterioration is the problem of "opaque zones" -- which occur when "an image by red, green and blue picture elements is enlarged and projected, [then] a part of the image is not displayed on the screen due to the opaque zones between the picture elements". (Col. 1, lines 55-60).

Park solves this problem by "divid[ing] the picture elements of the image formed by a flat display panel into original picture elements and the duplication picture elements

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... and shifts the duplication picture elements to the region **between the other picture elements of the same color**, thus increasing the number of the picture elements and enhancing the quality of the images". (Col. 3, lines 58-65, **bold** emphasis added).

As Park shifts these duplicated picture elements, Park is not concerned with offsetting the color pixels by a certain amount to derive an overlap of color planes:

"Each of the duplicated picture elements is moved to a different position from the original ones, that is, to the position of another color picture element, so that no overlap occurs between the original and duplication picture elements and this the picture elements are actually doubled in quantity." (Col. 6, lines 30-35).

Thus, by duplicating and shifting picture elements, Park has eliminated the "opaque zone" gaps (i.e. between subpixels of a flat panel display) that would be noticeable to the human eye in projected images from projecting such an image.

It should be noted that the doubling that occurs in Park are duplicate color picture elements. By contrast, the present invention seeks to double the number of separately addressable elements that could potentially contain different image data.

For the foregoing reasons, Applicant respectfully avers that Park does not disclose the limitation of offsetting green (or any other color, for that matter) from red and blue pixels by one-half to achieve substantially doubling the addressability of the image.

As Claims 2-5 depend from allowable Claim 1, Applicant requests that these Claims be passed through to allowance.

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In addition, for Claims 2, 7, Park shows a polyhedral flat plate that duplicates and shifts color pixels – which are not offset by one-half pixel to achieve addressability doubling.

As for Claims 4, 5, 9, 10, 21 and 29, Applicant respectfully that nowhere in Park is there any disclosure about a "cathode ray tube" or a CRT. Instead, Park only refers to projected images from flat display panels and their picture elements (i.e. "pixels").

As for Claim 6, Applicant avers – for the same reasons stated above -- that Park does not disclose offsetting red, green and blue pixels by one third.

As for Claim 11, the Examiner states that Park shows projecting for each pixel in the multipixel image a plurality of monochrome beams of different colors towards the imaging surface (e.g. in Fig. 25 having different light sources) and directing each of the plurality of monochrome beams for each of the pixel along a beam path towards the imaging surface (e.g. in Fig. 25), the image formed on the imaging surface from each of the beams is converged by substantially less than about 100% (e.g. in col. 12, using different plate using different value of lambda).

As for Claim 11 as currently amended, Applicant respectfully traverses.

As for the reasons discussed above, Park is not concerned with taking multicolored image data that starts as substantially converged image data (i.e. green,

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red and blue image data substantially at the same spatial location) and offsets that data to increase the number of independently addressable elements.

Applicant respectfully requests that Claim 11 be passed through to allowance.

As Claims 12-18 ultimately depend upon allowable Claim 11, Applicant requests that these Claims also be passed through to allowance.

As to Claim 19, Applicant respectfully avers that nowhere in Park is there any disclosure for electron beams being projected towards an imaging surface. Thus, Applicant requests that Claim 19 be passed through to allowance.

As Claims 20-23 ultimately depend upon allowable Claim 19, Applicant requests that these Claims also be passed through to allowance.

As for Claim 78, the Examiner states that Park shows illuminating a multispectral light source (e.g. in Fig. 17) and projecting light from toward the panel using X and Y matrix and using a third of the pixel color subtractive pixels from each pixel (e.g. Figs. 19 and 24).

As to Claim 78, Applicant respectfully traverses.

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Applicant avers that nowhere in Park is there any disclosure regarding the use of panels including subtractive pixels. As such, Applicant requests that Claim 78 be passed through to allowance.

As Claims 79-82 ultimately depend upon allowable Claim 78, Applicant requests that these Claims also be passed through to allowance.

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Conclusion

In view of the foregoing amendments and remarks, Applicant respectfully submits that all pending Claims are patentable over the cited art of record and are in condition for allowance. Therefore, Applicant requests the Examiner to reconsider and withdraw the outstanding rejection and pass this application to allowance.

If the Examiner believes a telephone conference would expedite the allowance of the claims, the Examiner is invited to contact Stuart P. Kaler at (707) 824-2487.

Respectfully submitted,

Dated: 7 July 2005

By: Stuart P. Kaler
Stuart P. Kaler
Reg. No. 35, 913

Attachment:

Exhibit A – Printout of File History from Private Pair
Exhibits B-H – Copies of 1449 forms previously submitted

Exhibit A

Printout of File History from USPTO Private Pair



United States Patent and Trademark Office

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PATENT APPLICATION INFORMATION RETRIEVAL



Search results as of: 7-6-2005:12:51:48 E.T.

Search results for application number: 10/047,995			
Application Number:	10/047,995	Customer Number:	42304
Filing or 371(c) Date:	01-14-2002	Status:	Non Final Action Mailed
Application Type:	Utility	Status Date:	03-09-2005
Examiner Name:	PATEL, NITIN	Location:	ELECTRONIC
Group Art Unit:	2673	Location Date:	-
Confirmation Number:	3268	Earliest Publication No:	US 2005-0104908 A1
Attorney Docket Number:	CLRV-007	Earliest Publication Date:	05-19-2005
Class/ Sub-Class:	345/694	Patent Number:	-
First Named Inventor:	Candice Brown Elliott, Vallejo, CA (US)	Issue Date of Patent:	-
Title Of Invention:	Color display pixel arrangements and addressing means		

Search Options

Assignments
Continuity Data
Display References
Image File Wrapper
Publication Review
Published Documents

File History

Date	Contents Description
03-10-2005	Mail Non-Final Rejection
03-07-2005	Non-Final Rejection
02-08-2005	Petition Decision - Granted
11-30-2004	Rescind Nonpublication Request for Pre Grant Publication
11-30-2004	Petition Entered
11-19-2004	Change in Power of Attorney (May Include Associate POA)
05-15-2002	Reference capture on IDS
07-13-2003	Reference capture on IDS
11-09-2004	Date Forwarded to Examiner
09-10-2004	Response to Election / Restriction Filed
09-10-2004	Workflow incoming amendment IFW
08-25-2004	Mail Restriction Requirement

http://pair-direct.uspto.gov/cgi-bin/final/printer_friendly.pl

7/6/2005

08-23-2004	Requirement for Restriction / Election
08-23-2004	IFW TSS Processing by Tech Center Complete
07-12-2004	Correspondence Address Change
04-14-2004	Correspondence Address Change
02-11-2004	Case Docketed to Examiner in GAU
07-15-2003	Information Disclosure Statement (IDS) Filed
09-22-2003	Case Docketed to Examiner in GAU
04-15-2003	Information Disclosure Statement (IDS) Filed
04-02-2003	Information Disclosure Statement (IDS) Filed
03-06-2003	Information Disclosure Statement (IDS) Filed
03-18-2003	Correspondence Address Change
03-19-2003	Change in Power of Attorney (May Include Associate POA)
10-11-2002	Information Disclosure Statement (IDS) Filed
05-25-2002	Information Disclosure Statement (IDS) Filed
05-15-2002	Information Disclosure Statement (IDS) Filed
08-08-2002	Case Docketed to Examiner in GAU
04-15-2002	Application Dispatched from OIPE
04-15-2002	Application Is Now Complete
03-25-2002	Payment of additional filing fee/Preexam
03-25-2002	An assertion that the nature of the legal entities having property rights to the patent authorizes t
03-25-2002	A statement by one or more inventors satisfying the requirement under 35 USC 115, Oath of the Applic
02-14-2002	Notice Mailed—Application Incomplete—Filing Date Assigned
01-27-2002	IFW Scan & PACR Auto Security Review
01-14-2002	Initial Exam Team nn

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Exhibit B

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0Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. CLRV-007	Serial No. 10/047,995
Information Disclosure Statement by Applicant		Applicant: Candice Hellen Brown Elliott	
(Use several sheets if necessary)		Filed: January 24, 2002 Group: 2612	

U.S. Patent Documents

Init.	Document No.	Date	Name	Class	Subclass	Filing Date
1	3,971,065	07/20/1976	Bayer	358	41	03/05/1975
2	4,786,964	11/22/1988	Plummer et al.	358	44	02/02/1987
3	4,886,343	12/12/1989	Johnson	350	335	06/20/1988
4	4,920,409	04/24/1990	Yamagishi	358	56	06/20/1988
5	4,967,264	10/30/1990	Parulski	358	44	05/30/1989
6	5,113,274	05/12/1992	Takahashi et al.	359	333	06/08/1989
7	5,315,418	05/24/1994	Sprague	359	40	06/17/1992
8	5,334,996	08/02/1994	Tanigaki et al.	345	152	10/23/1990
9	5,341,153	08/23/1994	Benzschawel	345	152	06/13/1988
10	5,398,066	03/14/1995	Martinez-Uriegas et al.	348	393	07/27/1993
11	5,541,653	07/30/1996	Peters et al.	348	264	03/10/1995
12	5,561,460	10/01/1996	Katoh et al.	348	219	06/02/1994
13	5,754,226	05/19/1998	Yamada et al	348	219	12/19/1995
14	6,008,868	12/28/1999	Silverbrook	348	790	03/13/1995
15	6,188,385	02/13/2001	Hill et al	345	136	10/07/1998

Foreign Documents

Init.	Document No.	Date	Country	Translation		
				Class	Subclass	Yes No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

16 R. Martin et al., "Detectability of reduced blue pixel count in projection displays", Proceedings of the Society for Information Display Symposium Digest, pp. 606-609, May 1993.

Examiner	Date Considered
Examiner: Initial if citation considered, whether or not citation is in conference with MPEP 609; Draw line through citation if not conformance and not considered. Include a copy of this form with the next communication to applicant.	

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Exhibit C

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Exhibit D

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INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No.	8831.0007	Appln. No.	10/047,995
Applicant	CANDICE HELLEN BROWN ELLIOTT		
Filing Date	January 14, 2002	Group:	2612

U.S. PATENT DOCUMENTS

Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
		4,751,535	Jun 14, 1988	Myers			
		4,966,441	Oct 30, 1990	Conner			
		5,792,579	Aug 11, 1998	Phillips			
		5,949,496	Sep 7, 1999	Kim			
		5,973,664	Oct 26, 1999	Badger			
		6,034,666	Mar 7, 2000	Kanai et al.			
		6,061,533	May 9, 2000	Kajiwara			
		6,108,122	Aug 22, 2000	Ulrich et al.			
		6,144,352	Nov 7, 2000	Matsuda et al.			
		6,271,891 B1	Aug 7, 2001	Ogawa et al.			
		6,299,329 B1	Oct 9, 2001	Mui et al.			
		6,377,262 B1	Apr 23, 2002	Hitchcock et al.			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	Betrisey, C., et al., "Displaced Filtering for Patterned Displays," 2000, <u>Society for Information Display (SID) 00 Digest</u> , pp. 296-299.
	Carvajal, D., "Big Publishers Looking Into Digital Books," April 3, 2000, <u>The New York Times</u> , Business/Financial Desk.
	Gibson Research Corporation, website, "Sub-Pixel Font Rendering Technology, How It Works," 2002, http://www.grc.com/ctwhat.html .
	Microsoft Corporation, website, 2002, http://www.microsoft.com/reader/ppc/product/cleartype.html .

OMB No. 0651-0011

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Applicant	CANDICE HELLEN BROWN ELLIOTT		
Filing Date	January 14, 2002	Group:	2612

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	Microsoft Press Release, November 15, 1998, "Microsoft Research Announces Screen Display Breakthrough at COMDEX/Fall '98, PR Newswire.
	Murch, M., "Visual Perception Basics," 1987, <u>SID</u> , Seminar 2, Tektronix, Inc., Beaverton, Oregon.
	Wandell, Brian A., Stanford University, "Fundamentals of Vision: Behavior, Neuroscience and Computation," June 12, 1994, <u>Society for Information Display (SID) Short Course S-2</u> , Fairmont Hotel, San Jose, California.
	U.S. Patent Application Publication No. US 2002/0015110 A1, February 7, 2002, Brown Elliott.

Examiner	Date Considered
*Examiner:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
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Exhibit E

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INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No.	8831.0007	Appn. No.	10/047,995
Applicant	Candice Hellen Brown Elliott		
Filing Date	January 14, 2002	Group:	2612

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
		06-102503	Apr 15, 1994	Japan			Yes

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner	Date Considered
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

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Exhibit F

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OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	8831.0007	Appln. No.	10/047,995
Applicant	Candice Hellen Brown Elliott		
Filing Date	January 14, 2002	Group:	2612

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
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	GB 2 133 912 A	Aug 1, 1984	UK			
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	WO 03/014819 A1	Feb 20, 2003	PCT			

OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION

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Applicant	Candice Hellen Brown Elliott		
Filing Date	January 14, 2002	Group:	2612

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	Booth, Jr., Lawrence A., "Method and Apparatus for Wide Gamut Multicolor Display," U.S. Patent Application Publication, Publication No. US 2003/0011613 A1, January 16, 2003.
	"ClearType magnified," <u>Wired Magazine</u> , November 8, 1999, Microsoft Typography, article posted November 8, 1999, and last updated January 27, 1999, © 1999 Microsoft Corporation, 1 page.
	Credelle, Thomas L. et al., "P-00: MTF of High-Resolution PenTile Matrix™ Displays," <u>Eurodisplay 02 Digest</u> , 2002, pages 1-4.
	Daly, Scott, "Analysis of SubTriad Addressing Algorithms by Visual System Models," <u>SID Symp. Digest</u> , June 2001, pages 1200-1203.
	Elliott, Candice H. Brown et al., "Color Subpixel Rendering Projectors and Flat Panel Displays," New Initiatives in Motion Imaging, SMPTE Advanced Motion Imaging Conference, February 27-March 1, 2003, Seattle, Washington, pages 1-4.
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	Feigenblatt, R.I., "Full-color imaging on amplitude-quantized color mosaic displays," <u>SPIE</u> , Vol. 1075, Digital Image Processing Applications, 1989, pages 199-204.
	Hayashi, Kenkichi, "Image Signal Processing Device for Minimizing False Signals at Color Boundaries," U.S. Patent Application Publication, Publication No. US 2002/0140831 A1, October 3, 2002.
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	Johnston, Stuart J., "An Easy Read: Microsoft's ClearType," <u>InformationWeek Online, Redmond, WA</u> , November 23, 1998, 3 pages.
	Johnston, Stuart J., "Clarifying ClearType," <u>InformationWeek Online, Redmond, WA</u> , January 4, 1999, 4 pages.
	"Just Outta Beta," <u>Wired Magazine</u> , December 1999, Issue 7.12, 3 pages.
	Klompenhouwer, Michiel A. et al., "Subpixel Image Scaling for Color Matrix Displays," <u>SID Symp. Digest</u> , May 2002, pages 176-179.
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	"Microsoft ClearType," http://www.microsoft.com/opentype/cleartype , September 26, 2002, 4 pages.
	Platt, John C., "Optimal Filtering for Patterned Displays," Microsoft Research, <u>IEEE Signal Processing Letters</u> , 2000, 4 pages.
	Platt, John, "Technical Overview of ClearType Filtering," Microsoft Research, http://research.microsoft.com/users/jplatt/cleartype/default.aspx , September 17, 2002, 3 pages.

OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	8831.0007	Appln. No.	10/047,995
Applicant	Candice Hellen Brown Elliott		
Filing Date	January 14, 2002	Group:	2612

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
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	Yamazaki, Shunpei, "Semiconductor Device and Manufacturing Method Thereof," U.S. Patent Application Publication, Publication No. US 2001/0040645 A1, November 15, 2001.
	Yamazaki, Shunpei et al., "Electro-Optical Device," U.S. Patent Application Publication, Publication No. US 2002/0017645 A1, February 14, 2002.

Examiner	Date Considered
*Examiner:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce

Exhibit G

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OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	8831.0007	Appln. No.	10/047,995
Applicant	Candice Hellen Brown Elliott		
Filing Date	January 14, 2002	Group:	2612

U.S. PATENT DOCUMENTS							
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate	
	4,651,148	Mar 17, 1987	Takeda et al.				
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	6,038,031	Mar 14, 2000	Murphy				
	6,049,626	Apr 11, 2000	Kim				
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	6,239,783 B1	May 29, 2001	Hill et al.				
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OMB No. 0651-0011

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FOREIGN PATENT DOCUMENTS							
	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Bechtel et al., U.S. Patent Application Publication, Pub. No.: US 2002/0190648 A1, Publication Date: December 19, 2002.

Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce

Exhibit H

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INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No.	8831.0007	Appln. No.	10/047,995
Applicant	Candice Hellen Brown ELLIOTT		
Filing Date	January 14, 2002	Group:	2612

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	4,593,978	Jun 10, 1986	Mourey et al.			
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	JP 03-78390	Apr 3, 1991	Japan			Yes; except drawings
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OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	8831.0007	Appn. No.	10/047,995
Applicant	Candice Hellen Brown ELLIOTT		
Filing Date	January 14, 2002	Group:	2612

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